

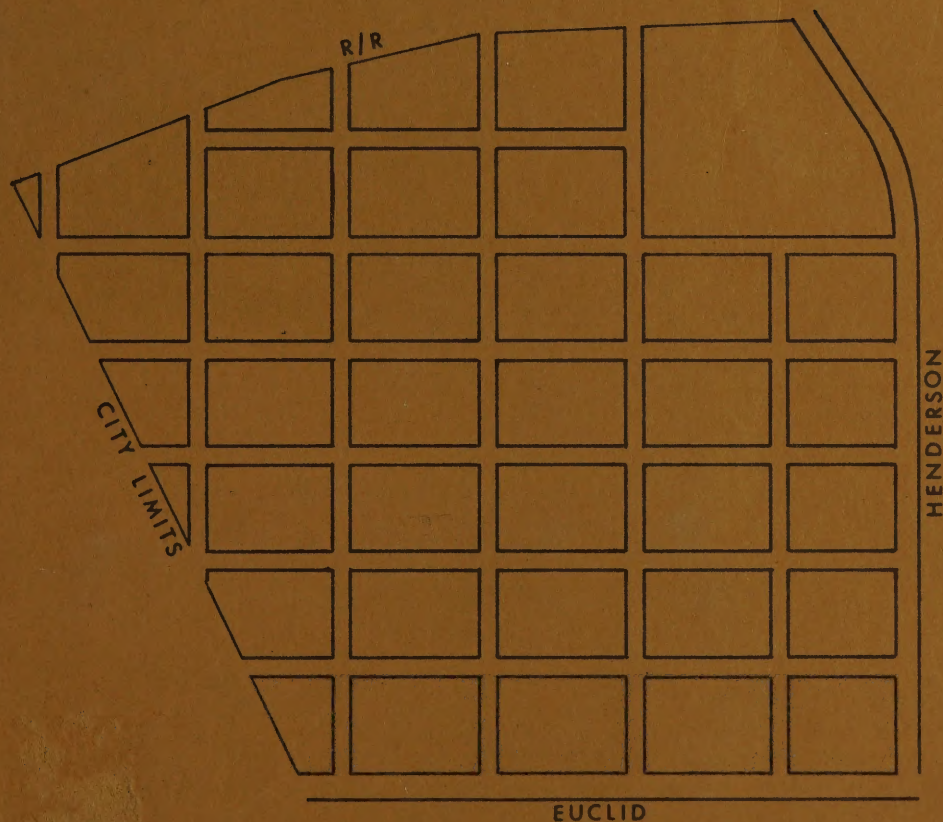
AN ENGINEERING  
PROPOSAL FOR

# S.I.D. 267

STREET PAVING &  
UNDERGROUND UTILITIES

CITY OF HELENA

HELENA, MONTANA



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625.7  
S

**SE&A**

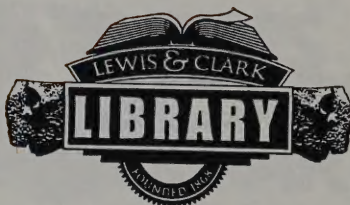
STAHLY ENGINEERING & ASSOC.  
CONSULTING ENGINEERS  
HELENA, MONTANA





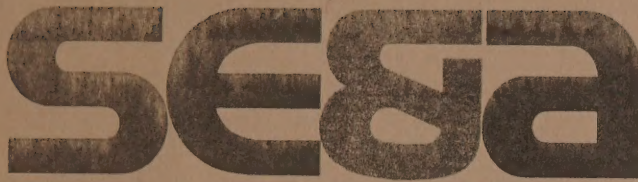
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**WITHDRAWN**



Lewis & Clark Library  
120 S. Last Chance Gulch  
Helena, MT 59601





STAHLY  
ENGINEERING  
&  
ASSOCIATES

1 SOUTH DAKOTA • HELENA, MONTANA 59601  
PHONE 406/442-8594

October 30, 1973

Mr. Dick Nisbet, City Engineer  
City of Helena  
City Hall Annex  
38 South Last Chance Gulch  
Helena, Montana 59601

RE: S.I.D. 267

Dear Mr. Nisbet:

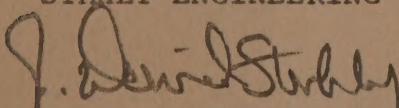
The following pages have information concerning our Engineering Firm as it would relate to S.I.D. 267. This data is being submitted after receiving your letter of October 24, 1973.

We would request you pay particular attention to the number of survey personnel we have available to proceed if we were selected. We are naturally attempting to locate work for these fellows to avoid excessive winter-time layoffs. Another item worthy of mention is our lack of design projects for our office engineers.

If further information is needed, please do not hesitate to contact us. We appreciate the opportunity to submit this information.

With best regards,

STAHLY ENGINEERING & ASSOCIATES

  
J. David Stahly, P.E.  
President

JDS/nrd

LEWIS & CLARK LIBRARY  
220 S. Last Chance Mall  
HELENA, MONTANA 59601











## I N D E X

### FIRM BACKGROUND

### CAPACITY TO PERFORM WORK

- INTRODUCTION
- LIST OF CURRENT PROJECTS
- TIME SCHEDULE

### EXPERIENCE ON SIMILAR PROJECTS

- PAST STREET PROJECTS
- LOCAL RESIDENT COORDINATION
- SAMPLE PLAN SHEETS

### EXPERIENCE RESUMES

- KEY PERSONNEL







## STAHLY ENGINEERING AND ASSOCIATES

The firm, Stahly Engineering and Associates, has been active in the Civil Engineering Field since 1969. During this period of time, two other firm names were used; however, the areas of practice have remained the same. These areas have been:

- Highway Engineering
- Structure Engineering
- Municipal Engineering
- Land Surveying.

The scope of services offered begins with the point of original conception, through the planning, engineering and specifications phases, and ending with the construction supervision and inspection.

Activities during the first two to three years were mainly confined to the Montana Department of Highways in Interstate Highway and bridge design. The past two years have brought about increased activities in the municipalities, especially the City of Helena and the Urban Renewal Program. Sample projects in this area are designs of streets, bridges, retaining walls, and underground utilities.

Presently, the staff of Professional Engineers, Detailers, Draftsman and Surveyors number fourteen.















CAPACITY  
TO  
PERFORM WORK





Listed on the following pages are the current projects we have in our office and a proposed time schedule for S.I.D. 267.

The Forest Road surveys will be completed in the next several weeks. At this time we could have available nine survey personnel to accomplish the street topographic surveys in the S.I.D. 267 area. This phase of the project would have to be completed prior to design. Therefore, it is apparent that adequate survey personnel is an important item for this project.

Also as a point of further information, we do not presently have any design projects with the City of Helena. Since our staff of engineers and draftsmen does not presently have a big design work load for the winter months, this project would certainly fit well into our project schedules.





## CURRENT PROJECTS

PROJECT	CLIENT	JOB DESCRIPTION
Marias Mountain Forest Road Survey	U.S. Forest Service	P-Line survey of Forest Roads. Job will be completed by end of October, 1973.
Forest Road Surveys	St. Regis Company Libby, Montana	P-Line survey and design of Forest Roads.
City Street Survey	City of Columbia Falls Montana	Topographic Survey of all City Streets within the City Limits of Columbia Falls.
Jackson Street "B" Construction Staking	City of Helena	Construction staking for Jackson Street "B".





S.I.D. 267

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EXPERIENCE  
OF  
SIMILAR PROJECTS



# PAST STREET PROJECTS

PROJECT	CLIENT	JOB DESCRIPTION
S, I.D. 254	City of Helena	Design of curb, gutter, roadway, sewer, storm sewer and related city street construction items. Construction staking, inspection and coordination were also provided.
Urban Renewal Jackson Street	City of Helena	One half mile of four-lane urban street design in downtown Helena. Responsibilities included: preliminary layout, final design drawings, underground, utility extensions, sewer line extensions design and specifications and cost estimates.
Urban Renewal Broadway	City of Helena	Preparation of plans, specifications, and design for curb, gutter, roadway, sewer, storm sewer and related city street construction items.
Seventh Avenue - Bethany* Home Road to Glendale Ave.	City of Phoenix	This project consisted of one mile major street design in an urban area including curb and gutter plan and profiles, storm sewer extension, sewer line design, and irrigation structures design
North High Paving District*	City of Phoenix	This project consisted of designing approximately 2.5 miles of urban residential streets.
Street Study*	City of Livingston	Study a portion of the existing street system and provide estimated costs of curb, gutter and paving.
Edmore Street* Improvements	City of Edmore North Dakota	Preparation of plans, specifications and design for curb, gutter, and asphaltic concrete pavement.





PAST STREET PROJECTS CONT'D

PROJECT	CLIENT	JOB DESCRIPTION
Langdon Street & Alley Improvements *	City of Langdon, North Dakota	Design and plan preparation for paving alleys in business district and numerous residential streets.

\* These are projects in which employees of Stahly Engineering & Associates were in responsible charge and gained valuable experience while with other firms.





## LOCAL RESIDENT COORDINATION

From our experience on other S.I.D.'s it became apparent that many of the local residents didn't have a grasp on what to expect in terms of curb openings, driveway approaches, and other design details. As a result, during construction they pass many questions along to City Hall. It is our theory that more involvement of the local residents during the design phases, would make one aware of what to expect during construction. If they were not in agreement, the problems could be ironed out when the job is still in the design stage, instead of when under construction. This would cut down on expensive construction changes or delays.

The Project Engineer would be in charge of communicating with the residents. He would determine where problems might exist, and then contact the people personally. This could take place both during the design phase and the construction phase. If, at several key times during the development of the project, evening meetings with the concerned citizens would be appropriate, this would certainly be done. As a means of understanding the local attitude, our Chief Designer, who is a resident in the area, could provide valuable input.

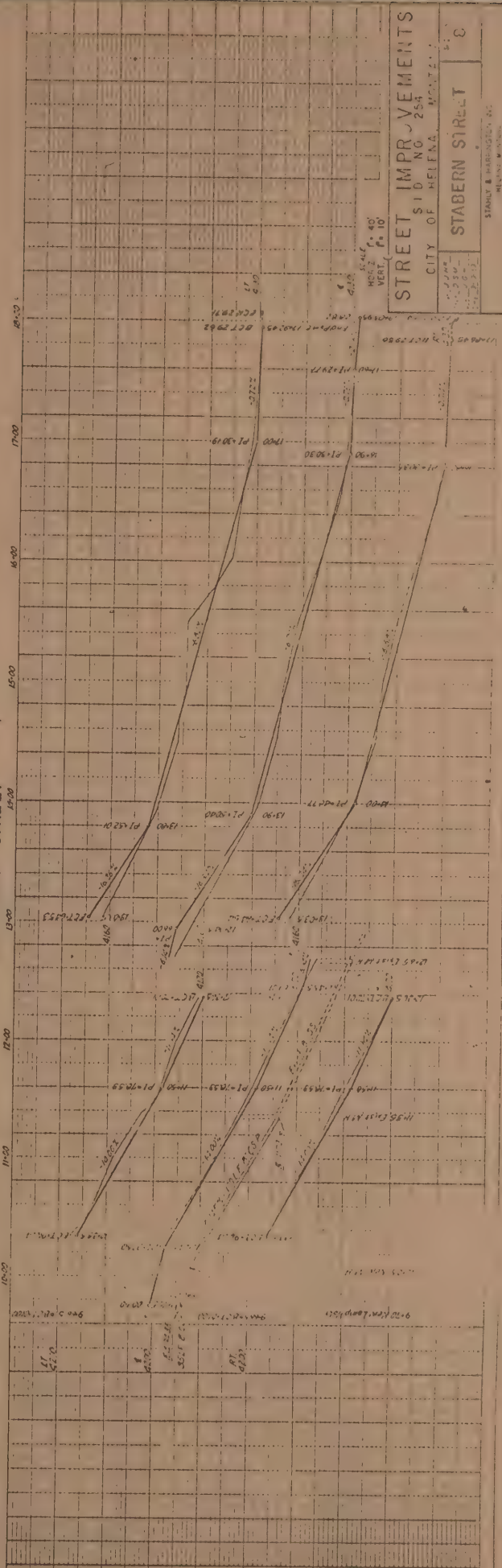
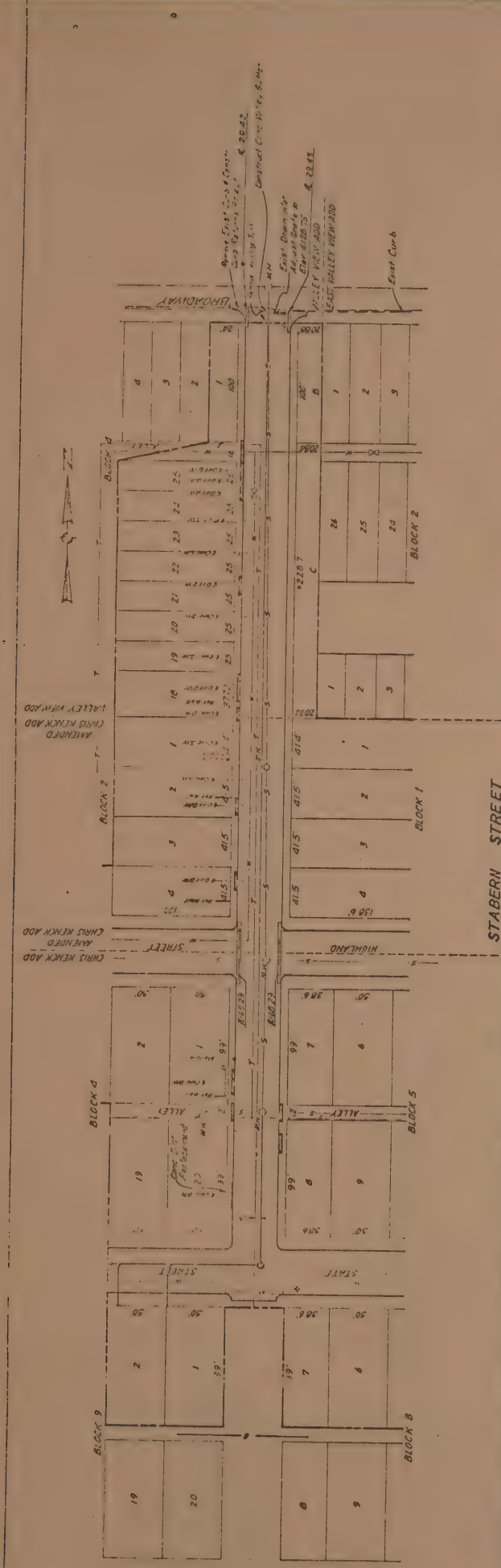
With this arrangement, we would be of maximum service to both the neighborhood residents and the City of Helena.











STREET IMPROVEMENTS  
 CITY OF HELONA, MONTANA  
 STABERNI STREET  
 8

STABERNI STREET  
 8

STABERNI STREET  
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STABERNI STREET  
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STABERNI STREET  
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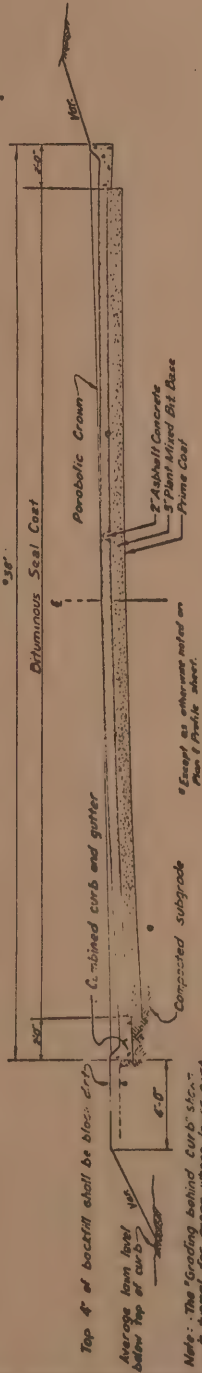
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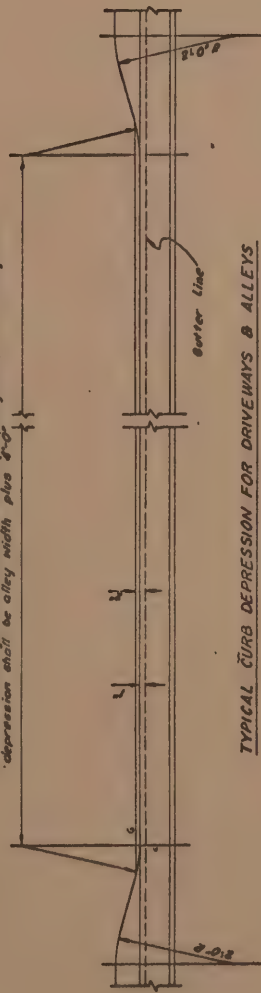




TYPICAL STREET PAVING SECTION & GRADING BEHIND CURB

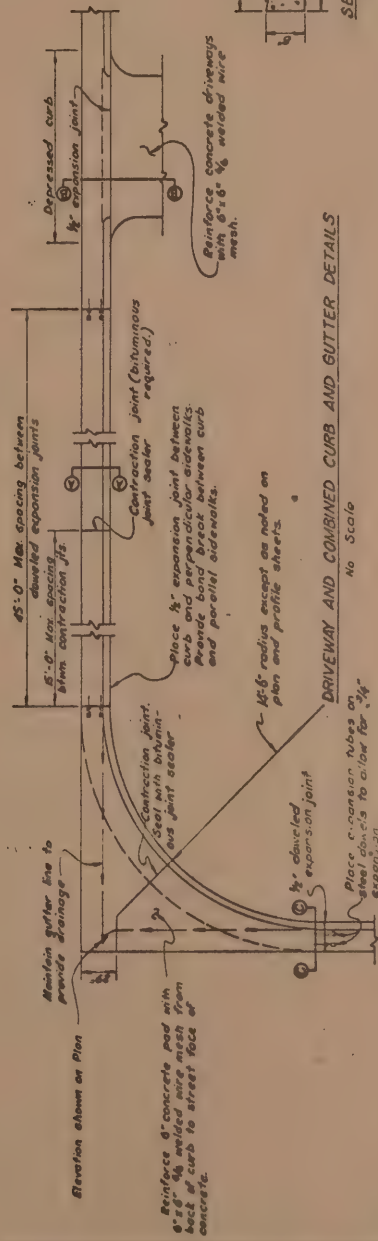
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Driveway curb depression width shall be determined during construction through consultation with the property owner. The alley curb depression shall be alley width plus 8'-0\"/>



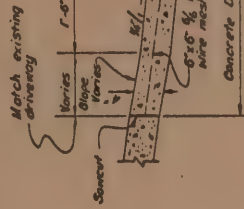
TYPICAL CURB DEPRESSION FOR DRIVEWAYS & ALLEYS

Scale: 1\"/>



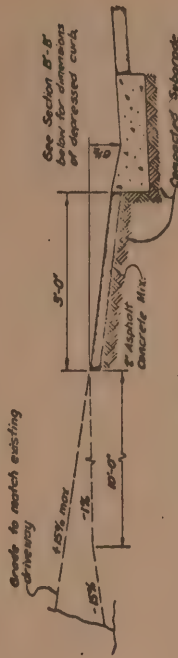
DRIVEWAY AND COMBINED CURB AND GUTTER DETAILS

No Scale



SECTION B-B SHOWING CONCRETE DRIVEWAY REPLACEMENT

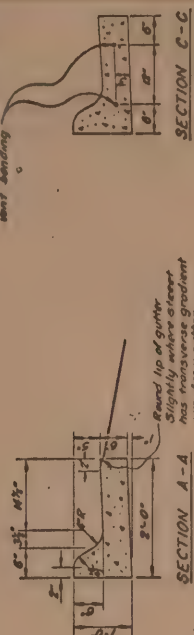
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SECTION B-B SHOWING ASPHALT PAD @ ALLEYS

Scale: 1\"/>

1/2\"/>



SECTION A-A

Scale: 1\"/>



SECTION B-B'

Scale: 1\"/>

STREET IMPROVEMENTS	
S.I.D. NO. 255	
CITY OF HELENA, MONTANA	
TYPICAL GRADING SECTION	SHEET NO. 3
B & CURBING DETAILS	
Drawn By: J. E. H.	Scale: 1\"/>
Checked By: J. E. H.	
Design: J. E. H.	

STANLEY & HARRINGTON INC.  
HELENA, MONTANA









EXPERIENCE

RESUMES



J. DAVID STAHLY . . . . President

Mr. Stahly is a Registered Professional Engineer in the states of Arizona, Idaho, Montana and Alaska. His B.S. in Civil Engineering was received from the University of Arizona in 1962. In addition, he has completed undergraduate studies for a Masters Degree in Business Administration.

From 1956 to 1962, he was employed part time by King Construction Company, bridge builders in the State of Kansas. His duties involved the direction of work necessary to complete the substructures on bridges along the Interstate Highways. After graduating in 1962, he was employed by the City of Los Angeles as Assistant Civil Engineer where he was responsible for designs, specifications and cost estimates on Los Angeles City streets and highways. In January 1963, he was employed by Rocketdyne, a division of North American Aviation, as Senior Construction Engineer. His responsibilities included preparation of proposals, funding, design and construction coordination on facility road and water projects at the 1700 acre Santa Susana Field Laboratory.

In July, 1966, Mr. Stahly joined an Arizona consulting firm as Project Engineer, designing highways and streets. Early in 1968, he was elected Division Vice President of the firm, assuming the responsibilities for all city-oriented work such as street design, water line design and sewer and storm water design, along with scheduling manpower requirements for the company's projects. In the fall of 1968, Mr. Stahly was appointed Regional Vice President and Manager of the Montana branch, located in Helena.

In October, 1970, he formed a wholly owned Montana firm, thus creating Stahly Engineering and Associates.





LOWELL C. HANSON . . . . Structural Engineer

Mr. Hanson is a Registered Professional Engineer in the State of Montana. His B.S. in Civil Engineering was received from the University of North Dakota in 1962. In addition, he received his M.S.C.E. from Montana State University in 1969. He has had over ten years experience in the general practice of Civil Engineering as a Consulting Engineer in the fields of municipal, sanitary, highway and structural engineering. Societies of which he is a member are N.S.P.E. and M.S.E.

From 1960 to 1969, Mr. Hanson was employed by consulting firms in North Dakota and Montana. His experience with these firms varied from municipal and sanitary engineering projects to building and bridge projects. The municipal projects included water treatment plants, sanitary sewage collection and disposal systems, water distribution systems, storm sewers, and curb and gutter paving projects. The building projects included design of multistory reinforced concrete frames, structural steel frames, masonry and timber structures. The projects involving bridge design included prestressed concrete, continuous steel girder, composite plate girder, continuous truss and reinforced concrete and timber bridges.

After receiving his Masters Degree in 1969, Mr. Hanson was appointed Vice President and head of the Structural Engineering Section of a Billings consulting firm. He served as project engineer on various municipal projects for the City of Billings and on a statewide comprehensive area plan for water and sewer which covers 49 counties in Montana.

In January of 1971, Mr. Hanson moved to Helena where he is presently employed as the structural engineer for Stahly Engineering and Associates.



ALLAN W. NYE . . . . Project Engineer

Mr. Nye is a Registered Professional Engineer in the State of Montana. His B.S. in Civil Engineering was received from the University of Denver in 1961. Societies of which he is a member are N.S.P.E., M.S.E., and Tau Beta Pi Association.

From 1962 to 1964, Mr. Nye was employed by the U.S. Bureau of Public Roads as an assistant project engineer on Federal Highway construction projects. His duties consisted of directing the work necessary for continuing construction. In July, 1964, Mr. Nye was employed by the Electronic Data Processing Division on Honeywell, Inc., where he was responsible for selling, installing, and programming the company computers.

At the beginning of 1970, Mr. Nye moved to Helena to work for a consulting firm as a highway design engineer. His duties consisted of the overall design of Interstate Highways.

In November, 1971, Mr. Nye was employed as a project engineer for Stahly Engineering and Associates.





DAVID C. HEALEY . . . . Engineer-In-Training  
Party Chief

Mr. Healey is an Engineer-In-Training in the State of Arizona. He received his B.S. in Civil Engineering from the University of Arizona in 1969. He is a member of Tau Beta Pi.

From 1969 to 1971, Mr. Healey was a member of the U.S. Peace Corps, working in Ecuador and Peru. He spent one year in Ecuador working on road and bridge construction. His other year of Peace Corps Service was spent in Peru, having been sent there to aid in reconstruction efforts following the earthquake of May, 1970. While in Peru, he did work in road, canal, and school construction.

In June of 1972, Mr. Healey moved to Helena where he is presently employed as an Engineer-In-Training and Party Chief for Stahly Engineering and Associates.



WILLIAM C. HICKMAN . . . . Chief Draftsman

Mr. Hickman was employed by Consulting and Architectural Firms in Helena and Denver from 1959 to 1971. Duties have consisted of all phases of layout and detailing as related to structures (Bridges, mills, machinery foundations, buildings), architecture and highway design.

Mr. Hickman was Senior Draftsman in the structural department of a large Denver based construction - engineering company and also acted as assistant job captain with the architectural department of the same firm. After moving to Helena, he worked as a chief structural draftsman with a local consulting firm.

Mr. Hickman was employed by Stahly Engineering in April of 1972. His responsibilities are the layout and detailing of the company's structural projects, along with overall coordination of all drafting duties.



# THE HISTORY OF THE UNITED STATES

The history of the United States is a story of growth and development. It begins with the first settlers who came to the continent in search of a new life. They found a land of vast resources and a people who were eager to learn from them. The story continues through the years of struggle and triumph, from the founding of the nation to the present day. It is a story of a people who have built a great and powerful nation, one that has inspired the world.

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